DAN E ARNETT CHIEF OF STAFF

Phone: (803) 737-0800 Fax: (803) 737-0801

December 22, 2005

Charles L. A. Terreni, Esquire Chief Clerk & Administrator **Public Service Commission of South Carolina** 101 Executive Center Drive Columbia, South Carolina 29210

> Re: Request for Investigation to Determine Whether a Regulation Should Be Promulgated Requiring Relocation of Certain Meter Sets or Installation of Splash Guards on These Meter Sets

Docket No. 2005-270-G

Dear Mr. Terreni:

Please find enclosed the original and twenty-five (25) copies of the Direct Testimony and Exhibits of Vernon Gainey in the above referenced docket. Also, if you would, please date stamp the extra copy and return it to me via our courier. By copy of this letter we are also serving each of the parties of record.

Best regards,

Framer Bowy Hudson
Shannon Bowyer Hudson

SBH/pjm Enclosures

Cc: Jan M. Ayer (w/enc)

James H. Jeffries IV, Esquire (w/enc)

Kerry McTigue, Esquire (w/enc)

Patricia Banks Morrison, Esquire (w/enc)

Paul W. Dillingham, Esquire (w/enc)

ok D. Duke-

BEFORE

THE PUBLIC SERVICE COMMISSION OF

SOUTH CAROLINA

DOCKET NO. 2005-270-G

IN RE:)	
Request for Investigation to Determine Whether)	CERTIFICATE OF
A Regulation Should Be Promulgated Requiring)	SERVICE
Relocation of Certain Meter Sets or Installation)	
Of Splash Guards on These Meter Sets)	

This is to certify that I, Pamela McMullan, an employee with the Office of Regulatory Staff, have this date served one (1) copy of the **DIRECT TESTIMONY AND EXHIBITS OF VERNON GAINEY** in the above-referenced matter to the person(s) named below by causing said copy to be deposited in the United States Postal Service, first class postage prepaid and affixed thereto, and addressed as shown below:

Jan M. Ayer 1140 Ridgecrest Avenue North Augusta, SC, 29841

James H. Jeffries IV, Esquire Moore & Van Allen PLLC Bank of America Corporate Center 100 North Tryon Street, Suite 4700 Charlotte, NC, 28202-4003

Kerry McTigue, Esquire Piedmont Natural Gas Company, Inc. Nelson Mullins Riley & Scarborough, LLP 1320 Main Street, Suite 1700 Columbia, SC, 29201

Patricia Banks Morrison, Esquire South Carolina Electric and Gas Company Legal Department - 130 Columbia, SC, 29218 Paul W. Dillingham, Esquire Spencer & Spencer, P.A. 226 East Main Street, Suite 200 Post Office Box 790 Rock Hill, SC, 29731

Pamela McMullan

December 22, 2005 Columbia, South Carolina

THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF TESTIMONY AND EXHIBITS

OF

VERNON L. GAINEY



Docket No. 2005-270-G

Request for Investigation to Determine Whether a Regulation Should Be Promulgated Requiring Relocation of Certain Meter Sets or Installation of Splash Guards on These Meter Sets

1 2 3 4 5 6		DIRECT TESTIMONY OF VERNON L. GAINEY ON BEHALF OF THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF DOCKET NO. 2005-270-G
7	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.
8	A.	My name is Vernon L. Gainey. My business address is 1441 Main Street, Suite
9		300, Columbia, South Carolina 29201. I am employed by the State of South Carolina as
10		Pipeline Safety Supervisor in the Electric and Gas Department for the Office of
11		Regulatory Staff ("ORS").
12	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
13	A.	I received a high school diploma in 1973, successfully completed the Federal
14		Department of Transportation's ("DOT") Pipeline Safety Inspector Certification Program
15		in 1993, and earned the Associate Public Manager Certificate in 2001 as part of the
16		Certified Public Manager ("CPM") Program Curriculum. I earned the CPM Credential in
17		2003. I have been working in the Pipeline Safety Regulatory and Enforcement area for
18		the past seventeen years, with responsibility of managing the program for the past six
19		years.
20	Q.	WHAT ARE YOUR RESPONSIBILITIES AS SUPERVISOR OF THE PIPELINE
21		SAFETY DEPARTMENT?
22	A.	I am responsible for the Supervision of the Pipeline Safety Inspectors and
23		ensuring that the Pipeline Safety Program is carried out according to our Certification
24		Agreement with the Federal DOT. In general, the Pipeline Safety department enforces

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the federal pipeline safety regulations set forth by the Federal DOT in addition to the state rules and regulations governing gas systems.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. The purpose of my testimony is to address the issue of whether a regulation should be promulgated requiring relocation of certain meter sets or installation of splash guards on these meter sets.

Q. WHAT ACTIONS HAVE BEEN PERFORMED BY ORS CONCERNING THIS MATTER?

In a letter dated June 21, 2005, Exhibit No. __ (VLG-1), ORS notified all gas system operators ("Operators") of the potential hazard that could develop on certain meter sets. The American Meter Company refers to this particular model and configuration as a "type 12" set. See Page 2 of Exhibit No. __ (VLG-1). All of the jurisdictional Operators in South Carolina as shown on Exhibit No. __ (VLG-2) who have meter sets in service similar to the one referenced in the June 21, 2005 letter have evaluated them and addressed this issue. An Advisory Bulletin, Exhibit No. __ (VLG-3) was issued to all Operators on September 1, 2005. The purpose of the Advisory Bulletin was to make Operators aware of the potential hazard that could develop with these meter sets, but did not require any mandatory action other than asking the Operators to evaluate their systems. An ORS November 3, 2005 follow up letter as shown in Exhibit No. __ (VLG-4) requested that Operators with these meter sets provide their action plans, if any. In response, action plans were submitted to ORS from all Operators with these meter sets. Exhibit No. __ (VLG-5) shows a summary of the actions being taken by the Operators.

A.

Q	WHY	DOES	ORS	BELIEVE	THAT	THESE	METER	SETS	HAVE	BEEN
	ADEQ	UATEL	Y ADI	DRESSED?						

As discussed earlier, all Operators with these meters submitted to ORS action plans in response to our November 3, 2005 letter regarding the September 1, 2005 Advisory Bulletin. See Exhibit No. __ (VLG-5). The Operators' action plans show that they are addressing the issue by replacing or re-configuring the meter sets or scheduling the meter sets for replacement or re-configuration. Some operators are installing "splash guards" to prevent any potential ice build-up. Also, Operators continue to monitor their systems for any meter sets which they determine to present any potential safety related problems.

ORS has not received any information about any regulator freeze-up due to moisture splashing up into the regulator vents of service regulators in South Carolina other than information on the incident that occurred in North Augusta last January 29, 2005. In addition, ten other Pipeline Safety Programs in nine southern states were surveyed by ORS to gather additional information. Exhibit No. __ (VLG-6). Only Georgia's Pipeline Safety Program indicated any instances of overpressure associated with the type 12 meter set configuration in combination with freeze-over. None of these states have promulgated a rule or regulation addressing the issue.

Based on the above, it is the conclusion of ORS that any rule requiring the Operators to address these meter sets would be redundant in light of the fact that they have all been addressed at this time.

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Q. HOW DOES ORS INTEND TO VERIFY THAT OPERATORS ARE FOLLOWING THROUGH WITH THEIR PROPOSED ACTION(S)?

As part of our Pipeline Safety enforcement procedures, we perform annual comprehensive inspections at each of our Operators. We are in the process of revising the inspection report used during the records and procedure review portion of this annual inspection. A section will be added to the questionnaire to ask the Operator whether there are any of the referenced meter sets in service in their system, and if so, how many, and what actions have been planned along with what actions have been taken to address the potential hazard pointed out in the ORS September 1, 2005 Advisory Bulletin. Also, we will ask if any modification(s) or addition(s) have been made to the action plan(s). We will then compare the Operators' responses to the action plans submitted to ORS and summarized in Exhibit No. __ (VLG-5) which are kept on file in our office. If any discrepancies exist we will address them at that time according to our established procedures and guidelines to ensure appropriate action is taken.

15 Q. HAS ORS INVESTIGATED THIS MATTER THOROUGHLY?

- ORS is confident that this matter has been investigated thoroughly and that the
 Operators have cooperated sufficiently. The Operators have demonstrated their
 commitment to public safety through voluntary action and cooperative effort.
- 19 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 20 A. Yes, it does.

THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF

Request for Investigation to Determine Whether a Regulation Should Be Promulgated Requiring Relocation of Certain Meter Sets or Installation of Splash Guards on These Meter Sets

DOCKET NO. 2005-270-G

VERNON L. GAINEY TESTIMONY

EXHIBIT INDEX

EXHIBIT TYPE

EXHIBIT NO.

PREPARED BY

VLG-1	June 21, 2005 Letter to Operators Concerning Type 12 Meter Sets	ORS
VLG-2	Summary of Operator Responses Concerning Type 12 Meter Sets	ORS
VLG-3	Advisory Bulletin #: EGPS080501 Issued September 1, 2005	ORS
VLG-4	November 3, 2005 Follow-up Letter Re: Advisory Bulletin # EGPS080501 Issued September 1, 2005	ORS
VLG-5	Summary of Operator Action Plans	ORS
VLG-6	Summary of Responses From Southern Region States Concerning Meter Sets	ORS



C DUKES SCOTE TNECUTIVE DIRECTOR DANE ARNERI CHILE OF STALL

Phone (803) 737 (1806) Lax (803) 737 (1804)

JOHN W. FLITTER
DIRECTOR
ELECTRIC & GAS REGULATION

VERNON L. GAINEY, CPM SUPERVISOR PIPELINE SAFETY

June 21, 2005

To: All Gas System Operators

The Pipeline Safety Staff has recently been made aware that it is possible many Operators in South Carolina have residential meter sets configured in such a manner that the service regulator vents face downward just above the meter casing. (Please see attached for example.) The close proximity of the vents with the casing, coupled with them being installed below a roofline where the regulator vent may catch rainwater runoff poses a potential icing problem when temperatures fall below freezing. The freezing of the regulator vent generally results in a loss of gas flow to the customer. However, in some instances the regulator may become fixed in an open position, allowing gas to continue to flow when demand reduces, resulting in overpressure of the customer piping. This cumulates in the possibility of fire, and/or explosion in the customer's home.

We request that you provide a copy of a survey of your system showing how many of this type of meter set configurations are in service. Also, please show how many of these are located in a place where rainwater could spill directly onto the meter set. In addition, please indicate whether you have experienced overpressure problems associated with this type of configuration. We ask that you forward this information to our office within the next sixty (60) days. After reviewing the information provided to us, we will determine if any recommendations addressing safety concerns are warranted.

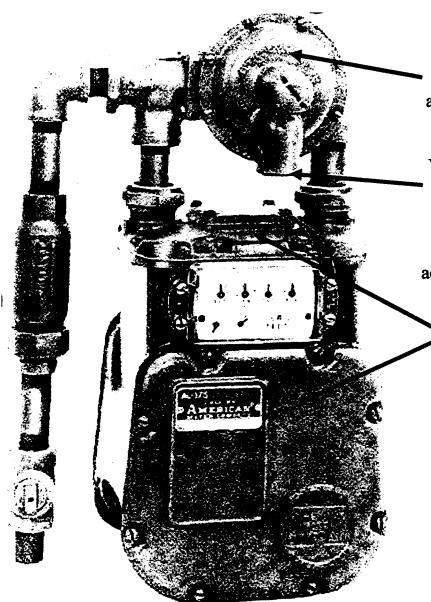
As always, thank you for your cooperation, and please feel free to contact this office with any questions you may have.

Sincerely.

Vernon L. Gainey, Supervisor

Pipeline Safety

Electric and Gas Regulation



Service regulator installed directly above the meter case.

Vent of the regulator
pointed at the meter
case, with very little
clearance and
susceptible to
accumulation of water.

Meter case.

OPERATOR SURVEY CONCERNING TYPE 12 METER SETS

Co. 48 6/21/2005 Gen none 6/21/2005 Gen none 6/21/2005 Gen none 6/21/2005 Gen none 6/21/2005 Ille 3,306 6/21/2005 Ille 3	NAMEOF	TOTAL#	LETTER	REPLY	NUMBER OF	# AFFECTED	# OF OVER PRESSURE
118 6/21/2005 8 none 6/21/2005 8 48 6/21/2005 6/21/200	OPERATOR	OF METERS	SENT	RECEIVED	TYPE 12 SETS	BY WATER	EVENTS
none 6/21/2005 8 48 6/21/2005 8 28 6/21/2005 9 28 6/21/2005 9 9,635 6/21/2005 9 1,610 6/21/2005 9 1,610 6/21/2005 9 1,610 6/21/2005 9 1,5336 6/21/2005 9 7,344 6/21/2005 9 15,323 6/21/2005 9 15,323 6/21/2005 9 17,344 6/21/2005 9 10,548 6/21/2005 9 11,246 6/21/2005 9 11,284 6/21/2005 9 11,246 6/21/2005 9 11,246 6/21/2005 9 11,342 6/21/2005 9 11,342 6/21/2005 9 11,342 6/21/2005 9 11,342 6/21/2005 9 11,342 6/21/2005 9 11,342 6/21/2005 9 12,846 6/21/2005 9 12,846 6/21/2005 9 13,346 6/21/2005 9 13,342 6/21/2005 9 13,342 6/21/2005 9 13,342 6/21/2005 9 13,345 6/21/2005 9	Aiken HA	118	6/21/2005	8/17/2005	эиои	n/a	n/a
none 6/21/2005 48 6/21/2005 28 6/21/2005 28 6/21/2005 9,635 6/21/2005 1,610 6/21/2005 1,610 6/21/2005 3,306 6/21/2005 9,635 6/21/2005 1,544 6/21/2005 1,5323 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 115,323 6/21/2005 115,324 6/21/2005 117,284 6/21/2005 117,284 6/21/2005 113,341 6/21/2005 1138,341 6/21/2005 1138,341 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005	Ameresco, Inc.	none	6/21/2005	8/19/2005	none	n/a	n/a
48 6/21/2005 28 6/21/2005 1,610 6/21/2005 3,306 6/21/2005 3,306 6/21/2005 3,306 6/21/2005 7,344 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,346 6/21/2005 2,846 6/21/2005	BASF Corp.	none	6/21/2005	8/18/2005	auou	n/a	n/a
28 6/21/2005 9,635 6/21/2005 1,610 6/21/2005 1,610 6/21/2005 3,306 6/21/2005 737 6/21/2005 7,344 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 15,323 6/21/2005 15,323 6/21/2005 15,323 6/21/2005 15,324 6/21/2005 17,141 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,346 6/21/2005 2,846 6/21/2005	Blue Flame Gas Co.	48	6/21/2005	7/21/2005	none	n/a	n/a
9,635 6/21/2005 1,610 6/21/2005 1,610 6/21/2005 1,3306 6/21/2005 1,344 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 115,323 6/21/2005 115,323 6/21/2005 117,284 6/21/2005 117,284 6/21/2005 117,284 6/21/2005 117,284 6/21/2005 1138,341 6/21/2005 1138,341 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 11,342 6/21/2005 13,846 6/21/2005 13,846 6/21/2005 145,866 6/21/2005	Charleston HA	28	6/21/2005	8/18/2005	auou	n/a	n/a
9,635 6/21/2005 1,610 6/21/2005 3,306 6/21/2005 737 6/21/2005 7,344 6/21/2005 7,344 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,346 6/21/2005 2,846 6/21/2005	Cherokee Co. Co-Gen	none	6/21/2005	8/18/2005	none	n/a	n/a
1,610 6/21/2005 3,306 6/21/2005 737 6/21/2005 9,635 6/21/2005 7,344 6/21/2005 10,548 6/21/2005 7,141 6/21/2005 none 6/21/2005 none 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 2,846 6/21/2005	Chester Co. NGA	9,635	6/21/2005	8/19/2005	5,000	300	none
3,306 6/21/2005 9,635 6/21/2005 9,635 6/21/2005 7,344 6/21/2005 10,548 6/21/2005 7,141 6/21/2005 none 6/21/2005 none 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 13,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 2,846 6/21/2005	City of Bamberg	1,610	6/21/2005	8/17/2005	none	n/a	n/a
9,635 6/21/2005 7,344 6/21/2005 10,548 6/21/2005 10,548 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 17,27 6/21/2005 none 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 2,846 6/21/2005 2,846 6/21/2005	City of Bennettsville	3,306	6/21/2005	8/25/2005	попе	n/a	n/a
9,635 6/21/2005 7,344 6/21/2005 10,548 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 11,346 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 2,846 6/21/2005 2,846 6/21/2005	City of Blacksburg	737	6/21/2005	8/12/2005	none	n/a	n/a
7,344 6/21/2005 10,548 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 13,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 2,846 6/21/2005	City of Fountain Inn	9,635	6/21/2005	8/8/2005	3677	01	none
10,548 6/21/2005 7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 none 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 none 6/21/2005 1,342 6/21/2005 2,846 6/21/2005	City of Laurens	7,344	6/21/2005	8/19/2005	none	e/u	n/a
7,141 6/21/2005 15,323 6/21/2005 none 6/21/2005 none 6/21/2005 none 6/21/2005 43,847 6/21/2005 17,284 6/21/2005 none 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	City of Orangeburg	10,548	6/21/2005	8/18/2005	291	113	none
15,323 6/21/2005 none 6/21/2005 none 6/21/2005 none 6/21/2005 43,847 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 1,342 6/21/2005 2,846 6/21/2005	City of Union	7,141	6/21/2005	8/11/2005	none	e/u	n/a
none 6/21/2005 none 6/21/2005 none 6/21/2005 none 6/21/2005 21,687 6/21/2005 17,284 6/21/2005 none 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	Clinton Newberry NGA	15,323	6/21/2005	8/25/2005	13,430	2,094	none
none 6/21/2005 none 6/21/2005 none 6/21/2005 13,847 6/21/2005 21,687 6/21/2005 17,284 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Columbia HA	727	6/21/2005	7/20/2005	none	n/a	n/a
none 6/21/2005 none 6/21/2005 11,687 6/21/2005 21,687 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,846 6/21/2005	Dept. of Defense	auou	6/21/2005	8/19/2005	none	n/a	n/a
11,342 6/21/2005 13,847 6/21/2005 21,687 6/21/2005 17,284 6/21/2005 17,246 6/21/2005 17,246 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,341 6/21/2005 138,344 6/21/2005 138,344 6/21/2005 134,246 6/21/2005 2,846 6/21/2005	Easley HA	none	6/21/2005	8/19/2005	none	n/a	n/a
43,847 6/21/2005 21,687 6/21/2005 17,284 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Ferrell Gas Co.	none	902/17/9	8/22/2005	none	n/a	n/a
21,687 6/21/2005 17,284 6/21/2005 none 6/21/2005 13,341 6/21/2005 138,341 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,846 6/21/2005	Fort Hill NGA	43,847	9007/17/9	7/19/2005	30	none	none
17,284 6/21/2005 none 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Greenwood CPW	21,687	6/21/2005	8/25/2005	2	none	none
none 6/21/2005 17,246 6/21/2005 122 6/21/2005 138,341 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Greer CPW	17,284	s00Ź/1Z/9	8/24/2005	2	auou	none
17,246 6/21/2005 128,341 6/21/2005 138,341 6/21/2005 none 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Kimberly Clark Corp.	none	902/12/9	8/18/2005	none	n/a	n/a
122 6/21/2005 138,341 6/21/2005 none 6/21/2005 311,779 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Lancaster Co. NGA	17,246	6/21/2005	8/23/2005	16,380	7,588	none
138,341 6/21/2005 none 6/21/2005 311,779 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 45,866 6/21/2005	Laurens HA	122	902/17/9	8/25/2005	none	n/a	n/a
none 6/21/2005 311,779 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	Piedmont NG Co.	138,341	6/21/2005	8/15/2005	18,120	7,939	none
311,779 6/21/2005 none 6/21/2005 1,342 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	Santee Cooper	none	6/21/2005	7/12/2005	none	n/a	n/a
1,342 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	SCE&G	311,779	6/21/2005	8/16/2005	12,800	3,072	
1,342 6/21/2005 none 6/21/2005 2,846 6/21/2005 45,866 6/21/2005	SCPC	none	6/21/2005	7/12/2005	попе	n/a	n/a
100ne 6/21/2005 2,846 6/21/2005 45,866 6/21/2005 666,560	SCRHA #1	1,342	902/17/9	8/25/2005	none	n/a	n/a
2,846 6/21/2005 45,866 6/21/2005	SONAT	none	6/21/2005	7/12/2005	none	n/a	n/a
45,866 6/21/2005	Town of Winnsboro	2,846	6/21/2005	8/25/2005	1,126	90	none
	York Co. NGA	45,866	6/21/2005	8/24/2005	none	n/a	n/a
_	TOTALS	666,560	ŀ	-	70,858	21,166	1



OFFICE OF REGULATORY STAFF OF SOUTH CAROLINA

ADVISORY BULLETIN #: EGPS080501

Issue Date: September 1, 2005

49 CFR Reference(s): N/A

Subject: Potential safety hazards associated with certain residential meter set configurations.

Office of Regulatory Staff of South Carolina Electric and Gas Regulation, Pipeline Safety P. O. Box 11263

Columbia SC 29211

PIPELINE SAFETY ADVISORY BULLETIN

Advisory Bulletin #: EGPS080501

Date Issued: September 1, 2005

To: All Jurisdictional Gas and Hazardous Liquid System Operators in South Carolina.

Purpose:

The purpose of this Advisory Bulletin is to make Operators aware of potential safety hazards which are associated with certain residential meter set configurations. Specifically, meter set configurations in which the service regulator is situated directly above and in close proximity to the meter casing are the subject of this Advisory Bulletin. When these meter sets are located in a position where water spillage or rainwater runoff may come in contact with the meter, there could be a possibility of over-pressure downstream of the meter if the service regulator ices over during sub-

freezing temperatures. In the event of regulator vent freeze-up, it is possible that undue pressure could be placed on the home's piping system.

Background:

Following a recently completed investigation of a consumer complaint, the Office of Regulatory Staff became aware of this potential hazard which may exist on systems in South Carolina. In the investigated incident which took place in January, 2005, the meter set was located in a position where rainwater runoff fell on the meter and splash from the rainwater caused the service regulator vent to freeze up when temperatures fell below 32° F, thus rendering the regulator vent inoperable. This freeze-up of the regulator vent resulted in over-pressure on the customer piping and subsequent fire inside the house.

In June, 2005, the ORS conducted a survey of all gas operators in the state to determine 1) how many of these meter sets are in service, 2) how many of these are affected by water spillage or rainwater runoff onto the meter set, and 3) how many over-pressure problems related to freezing temperatures have occurred on these type meter sets. Survey reports indicate that approximately 108,000 of these meter sets are in service, with approximately 24,000 being affected by water spillage or rainwater runoff. Other than the aforementioned January 2005 incident, the survey of gas operators indicates no other reports of over-pressure problems occurring downstream of these subject meter sets that are related to freezing temperatures.

Advisory:

It is recommended that each Operator identify the location any of these herein described meter set configurations in use on their systems and be prepared to take appropriate action as may be deemed necessary. Actions could include but not be limited to reconfiguring these sets, relocating them, or installing "splash guards" in the regulator vents.

Issued in Columbia, SC, Tuesday, September 1, 2005.

Vernon L. Gainey, Pipeline Safety Supervisor





DANT ARNUTT CHIEF OF STAFF

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> VERNON L. GAINEY, CPM SUPERVISOR PIPELINE SAFETY

JOHN W. FLITTER DIRECTOR ELECTRIC & GAS REGULATION

November 3, 2005

To: All Gas System Operators

Re: Advisory Notice # EGPS080501

1441 Main Street, Sante 306

This letter serves as a follow up to the above-referenced Advisory Notice dated September 1, 2005 and mailed to all Gas System Operators. In that Advisory Notice our agency reported survey results showing approximately 24,000 meter sets in service being affected by water spillage or rainwater runoff. If your service area uses these types of meter sets and you have determined to take action due to the potential hazard outlined in our Notice, please provide to us what action(s) you plan to take or have taken regarding these meter sets along with a corresponding timeline for completion of your action(s). We kindly request your written response to our office on or before November 21, 2005. As you are likely aware, the Public Service Commission of South Carolina (the "Commission") set this matter [Docket No. 2005-270-G] for hearing on January 19, 2006 at 10:30 a.m. so that it may receive additional information about this matter. We would like to present to the Commission what voluntary actions you have taken.

As always, thank you for your cooperation, and please feel free to contact this office with any questions you may have.

Sincerely.

Vernon L. Gainey, Supervisor

Pipeline Safety

Electric and Gas Regulation

OPERATOR RESPONSES TO FOLLOW UP LETTER

NAME OF	LETTER	REPLY	NUMBER OF TYPE 12	ACTION BEING TAKEN	TIME
OPERATOR	SENT	RECEIVED	SETS AFFECTED BY WATER	ON THESE METER SETS	FRAME
Chester County NGA1	11/3/2005	11/22/2005	006	Survey system, replace sets where potential problems exist, and implement a customer awareness program.	3 years
Clinton Newberry NGA1	11/3/2005	11/22/2005	2094	Re-configure / replace	5 years
City of Fountain Inn	11/3/2005	12/12/2005	12	Re-configure / replace	Less than 1 year
Lancaster County NGA1	11/3/2005	12/12/2005	1000	Revise existing installation policy, survey entire system, and replace meter sets that have the potential for problems.	4 years
City of Orangeburg	11/3/2005	12/9/2005	113	Re-configure / replace	1 year
Piedmont Natural Gas Co	11/3/2005	11/17/2005	7939	Install splash guards	2 years
South Carolina Electric and Gas Company	11/3/2005	11/21/2005	3072	Re-configure, replace, or install splash guards	Less than 1 year
Town of Winnsboro	11/3/2005	12/16/2005	70	Re-configure / replace	1 year

¹ Indicates Natural Gas Authority.

SUMMARY OF RESPONSES FROM SOUTHERN REGION STATES

CONCERNING METER SETS

OTHER COMMENTS		None	None	None	None	There have been as may as one dozen (12) over pressure incidents in Georgia.	None	None	None	None	There has been 1 (one) over pressure incident in South Carolina.	None
ANY OVER PRESSURE	PROBLEMS ON THESE SETS	None	None	None	None	Yes	None	None	None	None	Yes	None
ANY LAW CONCERNING	TYPE 12 METER SETS	No	No	No	No	ON	No	No	No	No	No	No
NAME OF SOUTHERN	REGION STATE	ALABAMA	ARKANSAS	FLORIDA LP	FLORIDA PSC	GEORGIA	KENTUCKY	MISSISSIPPI	NORTH CAROLINA	PUERTO RICO	SOUTH CAROLINA	TENNESSEE